

RAW SEQUENCE LISTING

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ENTERED

<110> APPLICANT: University of Georgia Research Foundation, Inc
The Ohio State University
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Gunn, John S

<120> TITLE OF INVENTION: Hydrogenase Deficient Bacterial Strains

<130> FILE REFERENCE: 31725-77460

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<160> NUMBER OF SEQ ID NOS: 21

<170> SOFTWARE: PatentIn version 3.3

<210> SEQ ID NO 1

<211> LENGTH: 51

<212> TYPE: DNA

<213> ORGANISM: Salmonella typhimurium

<400> SEQUENCE: 1

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51

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<212> TYPE: DNA

<213> ORGANISM: Salmonella typhimurium

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<211> LENGTH: 51

<212> TYPE: DNA

<213> ORGANISM: Salmonella typhimurium

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<211> LENGTH: 50

<212> TYPE: DNA

<213> ORGANISM: Salmonella typhimurium

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<211> LENGTH: 51

<212> TYPE: DNA

<213> ORGANISM: Salmonella typhimurium

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aaaggagaaa aaatacgcgt tatgaataac gtgtaggctg gagctgcttc g

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<210> SEQ ID NO 6

<211> LENGTH: 50

<212> TYPE: DNA

<213> ORGANISM: Salmonella typhimurium

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<211> LENGTH: 232

<212> TYPE: DNA

<213> ORGANISM: Salmonella typhimurium

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120
atccgcatta caaaactgca caaagcttca tgaaatcacg acgggttaatg ccgtgagaag
180
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232

<210> SEQ ID NO 8

<211> LENGTH: 518

<212> TYPE: DNA

<213> ORGANISM: Salmonella typhimurium

<400> SEQUENCE: 8

gtactcattg ccgacacatg cccagtaaag acgaaacagc agcgcgacag taaaaatata
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ttgaatcgat ggcagggggc ggccaatgaa atatcctgta acagccagga cgacaatgga
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taacgccgtg atccagtgcc ataaacggac cggcgttca tagatatagt acccctggct
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cgtttatccc aaaccactat agttagtgtg ggcacatat gttgcatttc ttgtctttct
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caacgtgttt tagtagcaat tatgtttcta attcgtaaca actgattaca tgtgtgctac
420
tcacattact caaaaacata aattaattta atgttattgg tgatgttgag taaatatagc
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<211> LENGTH: 333

<212> TYPE: DNA

<213> ORGANISM: Salmonella typhimurium

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120
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180
aaatacgct tatgaataac ggtacgctaa gcgttaagga aaagaacgat gactggaaag
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333

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<210> SEQ ID NO 11
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<212> TYPE: DNA
<213> ORGANISM: Salmonella typhimurium
<400> SEQUENCE: 11
gtactcattg ccgacacatg

20

<210> SEQ ID NO 12
<211> LENGTH: 20
<212> TYPE: DNA
<213> ORGANISM: Salmonella typhimurium
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ccgggatggc gggtcgcttc

20

<210> SEQ ID NO 13
<211> LENGTH: 20
<212> TYPE: DNA
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gcgtcggcaa tgatcaaattg

20

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21

<210> SEQ ID NO 15
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20

<210> SEQ ID NO 16
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<212> TYPE: DNA
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24

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<211> LENGTH: 25
<212> TYPE: DNA
<213> ORGANISM: Salmonella typhimurium
<400> SEQUENCE: 17

cccaagctta gcgtacctgg acggc
25

<210> SEQ ID NO 18
<211> LENGTH: 24
<212> TYPE: DNA
<213> ORGANISM: Helicobacter hepaticus
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24

<210> SEQ ID NO 19
<211> LENGTH: 24
<212> TYPE: DNA
<213> ORGANISM: Helicobacter hepaticus
<400> SEQUENCE: 19
aataaagcac aactcccgtg agag
24

<210> SEQ ID NO 20
<211> LENGTH: 23
<212> TYPE: DNA
<213> ORGANISM: Helicobacter hepaticus
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23

<210> SEQ ID NO 21
<211> LENGTH: 23
<212> TYPE: DNA
<213> ORGANISM: Helicobacter hepaticus
<400> SEQUENCE: 21
ctacctacta ccgcataatc aag
23